

CLAIM AMENDMENTS

1-28. (canceled)

29. (new): An isolated protein having the binding characteristics of the *Pectinophora gossypiella* BT toxin receptor, wherein said protein comprises

- a) the amino acid sequence at positions 1269-1367 of SEQ. ID. No.: 2; or
- b) the amino acid sequence at positions 24-1729 of SEQ. ID. No.: 2; or
- c) an amino acid sequence at least 95% homologous to positions 1-1729 of SEQ. ID. No.: 2.

30. (new): The isolated protein of claim 29, wherein the protein comprises the amino acid sequence at positions 1269-1367 of SEQ. ID. No.: 2.

31. (new): The isolated protein of claim 29, wherein the protein comprises the amino acid sequence at positions 24-1729 of SEQ. ID. No.: 2.

32. (new): The isolated protein of claim 29, wherein the protein comprises an amino acid sequence at least 95% homologous to positions 1-1729 of SEQ. ID. No.: 2.

33. (new): The isolated protein of claim 32, which comprises the amino acid sequence of positions 1-1729 of SEQ. ID. No.: 2.

34. (new): A method to identify a candidate pesticide against *P. gossypiella*, which method comprises contacting a test compound with the protein of claim 29 and assessing the ability of said test compound to bind to said protein

wherein a test protein that binds to said protein is identified as a candidate pesticides against *P. gossypiella*.